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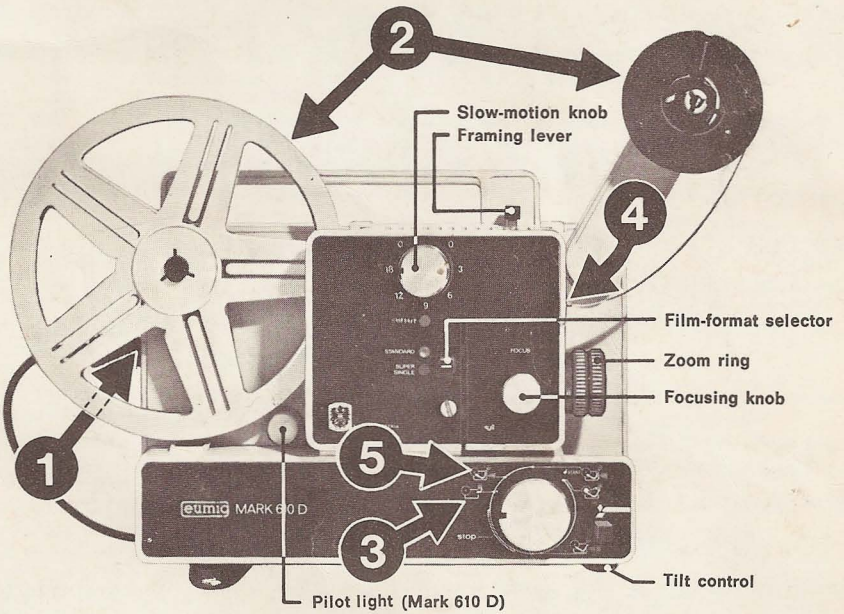
MARK 610 D
MARK 607 D

DUAL 8 SILENT PROJECTOR



How to operate your projector in a nutshell

1. Plug in the projector. But first check the line (mains) voltage and frequency.
2. Swing up the reel arm. Place the full reel (with super 8 or single 8 film) on the reel spindle and flip over the reel guard. (For regular 8 film, turn to page 5.)
   Place the universal film reel supplied on the takeup-reel spindle.
3. Move the function switch to the auto threading position.
4. Feed the film end into the threading slot until it is caught by the threading mechanism. The threading mechanism will do the rest.
5. Move the function switch to the forward with lamp position.

This apparatus must be earthed.

The equipment should be disconnected from the mains when not in use.

Live parts inside — disconnect from mains before removing the cover.

Important: When operating the projector, do not obstruct the air stream emerging from the ventilation slots.

VALID FOR UK ONLY!

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

The apparatus must be protected by a 3 A fuse if a 13 A (BS 1363) or another type of fused plug is used.

Congratulations! You have made a wise choice. The projector which you just bought is the product of the accumulated engineering and manufacturing know-how of a company that has been making movie projectors for over forty years: Eumig.

You will find that your modern projector combines outstanding performance with operating simplicity and dependability.

Your projector, from the 600 series, is a dual 8 projector featuring still and multiple slow-motion projection. You can vary the projection speed from single-frame through a choice of slow-motion speeds (all flickerless) to 18 fps, both forward and reverse. The projector is equipped with a low-heat halogen lamp with dichroic mirror and takes reels holding up to 400 ft. of acetat film.

The Vario Eupronet zoom lens provides crisp, brilliant pictures. The built-in film cutter, the pilot light and the automatic film threader make it easy to set up for a show.

The Eumig Mark 610 D has provision for starting a cassette recorder in step with the projector. That means you can screen your silent movies with sound accompaniment (background music, etc.)

We do hope that you will get a lot of enjoyment out of the Eumig projector. There should be nothing to mar your pleasure if you will first get acquainted with it and be guided by the operating instructions which follow.

Putting on a show with the Eumig Mark 610 D and Mark 607 D, at a glance

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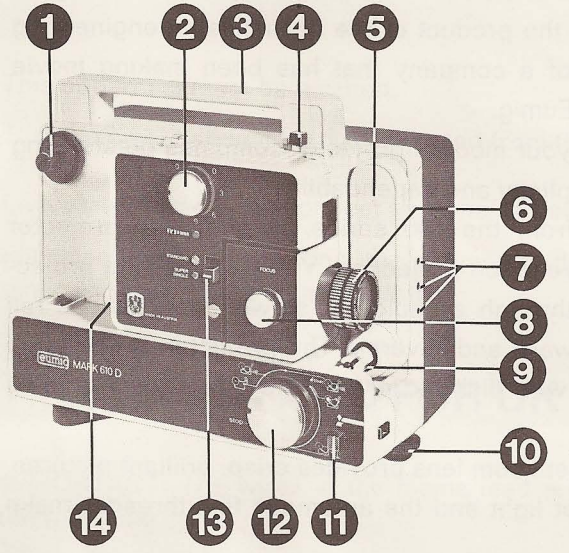
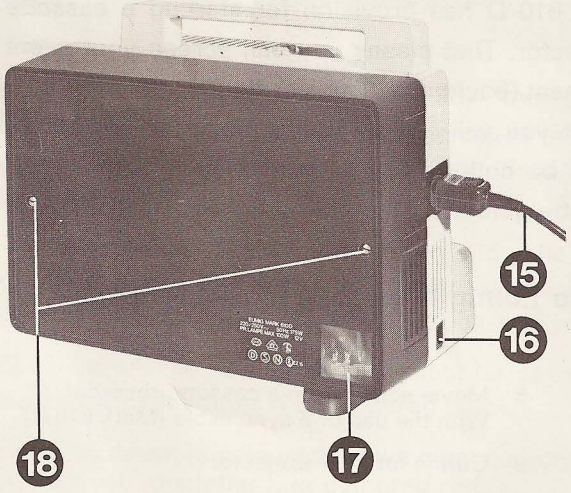




Thumbnail description

1. Reel spindle
2. Slow-motion knob
3. Carrying handle
4. Framing lever
5. Reel arm
6. Lens
7. Mounting holes for daylight viewer (an accessory)
8. Focusing knob
9. Reel-spindle adapter
10. Tilt control
11. Film cutter
12. Function switch
13. Film-format selector
14. Pilot light (Mark 610 D)
15. Power cord (mains lead)
16. Sync cable outlet
17. Voltage selector
18. Cover mounting screws

Accessories supplied:

1 Power cord (mains lead)

1 Operating instructions

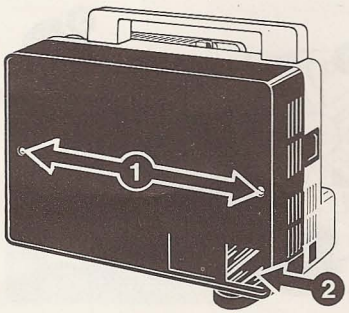
1 Warranty card

1 Universal film reel (for use as automatic takeup and storage reel) 790.0320/5

1 Reel-spindle adapter 704.5710/4

Before you plug it in . . .

. . . make sure that your house current (AC), line (mains) frequency (50 or 60 Hz, or cycles) and voltage are the same as those shown on the manufacturer's rating plate on the projector.



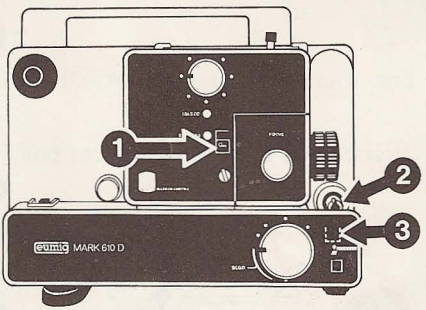
To change the projector operating voltage: (Caution: First disconnect the power cord [mains lead].)

❶ Remove the back cover after loosening the two mounting screws.

❷ Pull out the red connector and plug it onto the proper pin. Replace the back cover.

To change the line (mains) frequency: If your projector is a universal model with provision for frequency adjustment, follow the directions given on the inside of the back cover.

Selecting the film format



Super 8 or Single 8 film:

Slide the film-format selector lever ❶ down. During projection, the blue indicator lamp will light up.

Leave the adapter sleeve ❷ on the reel spindle.

Regular 8 film:

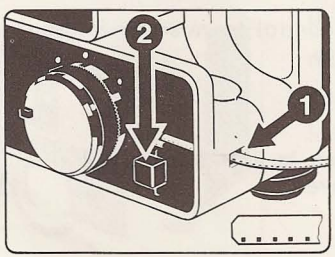
Slide the film-format selector lever ❶ up. During projection, the amber indicator lamp will light up.

Remove the spindle adapter ❷ and store it in the well ❸ provided for the purpose.

Regular 8 reels are pushed directly onto the reel spindle. Super 8 reels seat better if the spindle adapter is first slipped onto the spindle. However, Super 8 reels can also be used without an adapter.

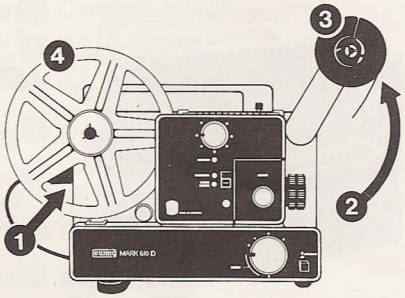
Getting ready to show a movie

To take full advantage of the fast rewind through the film channel, splice a 20-inch length of leader to the head and tail ends of your film (unless it was returned to you from the processor with a leader attached). For trouble-free operation of the automatic threading mechanism, trim the leading edge of the leader squarely with the built-in film cutter and curl the first few inches clockwise. Avoid creasing the film.



Insert about $1^1/_4$ inch of film into the slot on the side, as shown at ❶, and press the key ❷. Avoid cutting through perforations by inserting Regular 8 film so that a perforation is lined up with the edge of the slot, and Super 8 or Single 8 film so that the edge of the slot is midway between two perforations.

Be sure to move the function switch to the "STOP" (off) position before plugging the projector in.

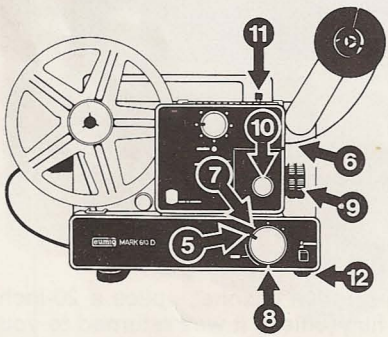


❶ Plug the power cord (mains lead) into an outlet.

❷ Swing the reel arm up to the click stop.

❸ Place the full reel on the reel arm (with the perforations facing you) and flip over the reel guard.
Films wound the wrong way (not as shown here) must be rewound twice for projection.

❹ Push the universal film reel supplied with the projector onto the takeup-reel spindle all the way to the stop.



❺ Move the function switch to the auto threading position ⟲. (The projection lamp is now being preheated. Pilot goes on with the Mark 610 D.)

❻ Feed the film end into the threading slot until it is caught by the threading mechanism. The rest of the threading operation is fully automatic.

❼ Move the function switch to the forward with lamp position ◯ .

❽ For reverse projection, move the function switch past the "STOP" (off) position to the reverse with lamp position ◯ .

❾ Turn the zoom ring to fill the screen.

❿ Bring the picture into focus by turning the focusing knob.

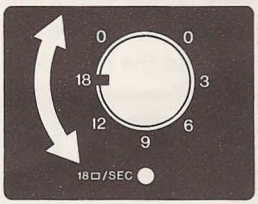
⓫ If a frame line shows on the screen, move the framing lever until it disappears.

⓬ Adjust the tilt control to raise or lower the projected picture.

Caution: Take care to operate the projector so that air is able to circulate freely through the ventilating slots in the case and the back cover.

If the projector is very cold, let it run for a few minutes with the projection lamp on to warm it up b e f o r e loading it. Should the motor stop for some reason, such as a momentary power failure, move the function switch to the "STOP" (off) position, then back to the desired operating mode.

Slow-motion and still projection



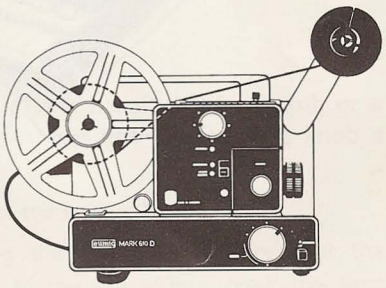
If you wish to show a given sequence of scenes in slow motion, move the slow-motion switch to the desired slow-motion speed – 12, 9, 6 or 3 fps (frames per second) – or to 0 for still projection during either forward or reverse projection.
To make it easier for you to locate the switch position for the normal projection speed of 18 fps, it is marked by a green indicator lamp during projection.

Fast rewind through film channel

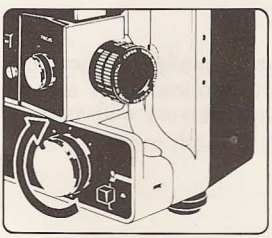
As soon as the leader attached to the tail end of the film moves into the picture, and before the film comes off the feed reel:
Move the function switch past the "STOP" (off) and reverse with lamp positions to the fast rewind (instant replay) position .
The lens gate swings up, the projection lamp goes out, and the film rewinds rapidly through the film channel.

Direct reel-to-reel rewind

Of course the film can also be rewound onto the feed reel externally, from reel to reel. This is done by moving the function switch to the fast rewind (instant replay) position .



Instant replay



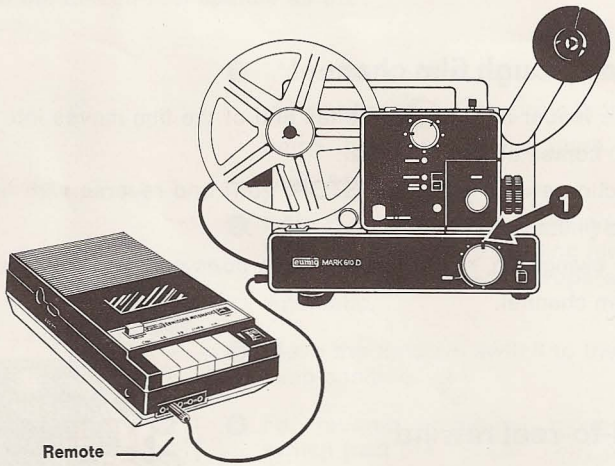
If you want to show a given sequence of scenes once more, you can interrupt the fast rewind at any time by moving the function switch clockwise to the forward with lamp position .

Movie sound from a cassette recorder by using a sync cable (Mark 610 D)

The tripping contact incorporated in the Eumig Mark 610 D makes it possible to start and stop a cassette recorder simultaneously with the projector.

However, it can be used only with recorders having a remote-control jack.

The recorder will start when the projector's function switch is moved into the ❶ forward with lamp and start position ⏻ which closes the tripping contact. In all other function-switch positions the tripping contact is open and the recorder turned off.



Sync cable (Mark 610 D)

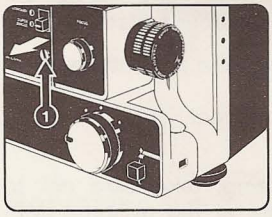
A connecting cable that fits most makes of cassette recorders is available from your dealer as an accessory (Eumig Ordering No. 790.0267/5). It terminates in a sub-miniature plug and comes with an adapter for Philips-type DIN jacks.

Instructions for its use accompany the cable.

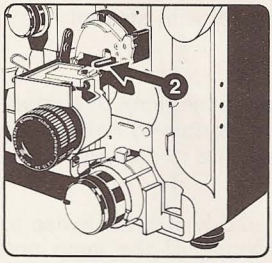
Caring for your projector

All moving parts of the Mark 610 D are permanently lubricated and require no attention.

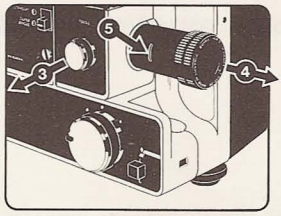
The film guides and film channel should be cleaned from time to time. With a soft cloth or a camel's hair brush, carefully remove dust and emulsion particles. To gain access to the film channel, pressure pad and film guides, take off the lamp housing and swing up the lens gate. But first move the function switch to the top "STOP" (off) position and pull out the line (mains) plug.



❶ Use a coin to turn the screw, then take off the lamp housing.



❷ Push the lens-gate latch toward the left. The lens gate will swing up.



❸ To clean the lens (with a soft, lint-free cloth or a camel's hair brush), pull out the focusing knob a little.

❹ Lift the lens out of the lens gate.

❺ When reinserting the lens, make sure that the detent notch es facing you. Then push the lens back into the lens gate until you hear it snap in.

Now swing the lens gate back in place and replace the lamp housing.

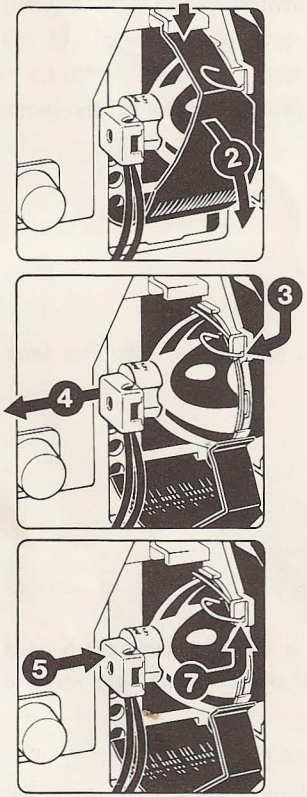
Proper film care is important. Clean your films occasionally with a commercial film cleaner. Store them in dust-tight cans in a cool, not-too-dry place.

Replacing the projection lamp (only with mains lead disconnected)

Nothing lasts forever. Projection lamps are no exception. When yours burns out, replace it with a halogen lamp with cold-light mirror.

Type of lamp for Mark 610 D: 12 V, 100 W halogen lamp with dichroic mirror (Eumig Ordering No. 931.004/6).

Type of lamp for Mark 607 D: 12 V, 75 W halogen lamp with dichroic mirror (Eumig Ordering No. 931.005/8).

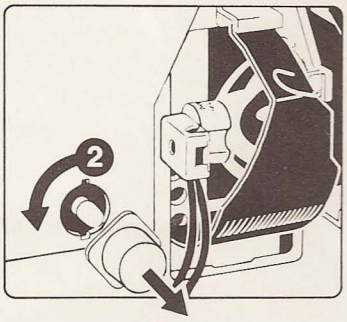


1. Remove the lamp cover.
2. Swing up and forward heat protection plate.
3. Push down the lamp spring and turn it counter-clockwise to disengage it.
   Lift the lamp out of the lamp holder.
4. Pull out the lamp plug.
   When inserting the new lamp, take care not to touch the bulb or the inside of the reflector with your bare hands.
   If you accidentally do, wipe them with alcohol.
5. Plug in the lamp plug.
6. Raise the lamp spring and push the lamp in contact with the lamp holder into the centering hole in the socket, taking care to locate the centering key in the centering notch.
7. Push down the lamp spring and turn it clockwise to engage it. Subsequent centering of the lamp unit is not necessary.
8. Swing heat protection plate back into original position.
9. Replace the lamp cover.

Momentary line-voltage surges in some localities may cause the projection lamp to burn out faster. Where this is observed, it is recommended that the projector's voltage selector be set for the next-higher voltage level (230 volts instead of 220, for example). This will extend the life of the lamp at the expense of slightly reduced light output.

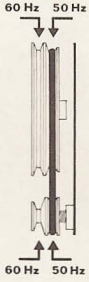
The life expectancy of the lamp can be increased also by letting it cool off at the end of the show before putting the projector away. The hot lamp filament is brittle and susceptible to shock.

Replacing the pilot-light bulb — Mark 610 D
(only with mains lead disconnected)



1. Replace lamp cover.
2. Turn cap counterclockwise to disengage it, then take it off.
3. Turn bulb to remove it and replace in with a 12-volt, 3-watt bulb of the same bayonet-base type.
4. Replace cap, turning it clockwise to engage it.
5. Replace the lamp cover.

Replacing the drive belt (Eumig Ordering No. 731.5629/2)



First set the slow-motion knob for 18 fps, move the function switch to the "STOP" (off) position, and unplug the power cord (mains lead).

Remove back cover and lamp housing.

Remove the worn drive belt and place in new belt in the pulley groove corresponding to your line (mains) frequency.

Replace lamp housing and back cover.

Accessories you'll find helpful

Sync Cable (Mark 610 D)

(Eumig Ordering No. 790.0267/5)

This accessory will enable you to start your cassette recorder in step with your projector. Ask your dealer for it.

Dust cover for Eumig projectors

These durable covers not only protect your projector against dust during storage, but also hold various accessories such as the main lead, spare reels etc.

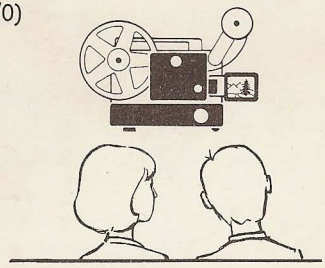
When ordering please quote the projector model.

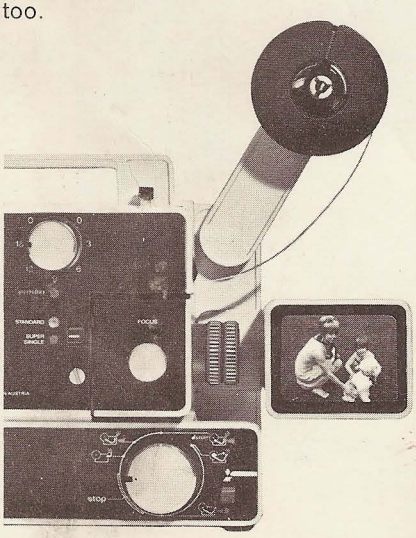
Daylight Viewer (Eumig Ordering No. 790.0290/0)

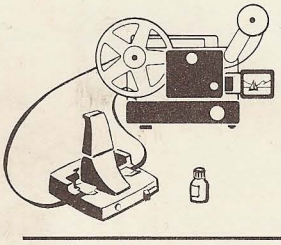
The Daylight Viewer displays even in broad daylight a bright, high-contrast picture on a small ground-glass screen.

Just snap it on for a preview of your film or a screening under daylight conditions before a small audience.

You will find it extremely helpful in sound-track building (Mark 610 D) and film editing too.







Subject to design changes without notice.

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